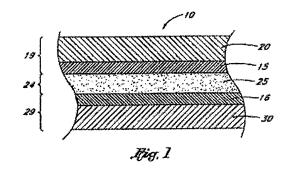
Process of manufacturing porous separator for electrochemical power supply

Also published as: Publication number: EP0814520 (A2) **Publication date:** 1997-12-29 EP0814520 (A3) Inventor(s): DELNICK FRANK M DR [US] US5948464 (A) IMRA AMERICA INC [US] Applicant(s): JP10106530 (A) Classification: Cited documents: - international: B32B5/32; C25B9/10; H01G9/02; H01M2/16; H01M2/18; H01M10/04; H01M2/14; H01M6/16; B32B5/22; C25B9/06; WO9311571 (A1) H01G9/02; H01M2/14; H01M2/16; H01M10/04; H01M6/16; EP0730316 (A1) (IPC1-7): H01M2/14 WO9323886 (A1) C25B9/10; H01G9/02; H01M2/16E; H01M10/04F - European:

Application number: EP19970108800 19970602 **Priority number(s):** US19960767468 19960619

Abstract of EP 0814520 (A2)

A method of forming a porous composite separator layer for an electrochemical cell comprising the steps of printing a thin layer of a separator precursor solution on the surface of one of the electrochemical cell electrodes, drying and curing the thin layer of separator precursor solution so that it transforms into a microporous composite separator structure. In the preferred embodiment, the separator precursor solution is formulated as an ink comprising a silica aerogel filler material dispersed in a solution of polymer binder which is dissolved in a suitable solvent. The process allows the manufacture of thin and flexible composite separators which are conformally bonded to the underlying electrodes.



Data supplied from the esp@cenet database — Worldwide